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(54) Title: HIGH VOLTAGE INSULATING MATERIALS

(57) Abstract: High voltage insulating materials in solid and liquid form which are provided in particular for use in high voltage generators for example for radiotechnology and computer tomography. The solid insulating materials are characterized in particular in that they have a high dielectric strength while having a relatively low weight. Furthermore, the electrical conductivity of the insulating materials can be set relatively simply such that surface charges are reliably dissipated and voltage flashovers are avoided. Finally, with further embodiments, in particular in the case of hybrid insulating materials, it is possible to adapt or change the dielectric constant and/or the electrical conductivity of the insulating materials in a targeted manner such that the respective voltage drops over the insulating materials do not exceed the dielectric strength thereof.

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